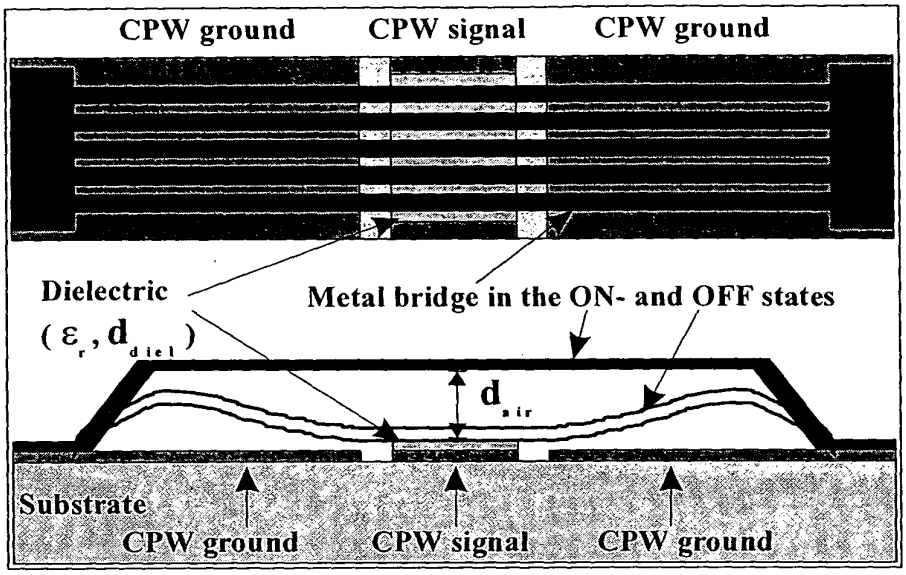


Fig. 1 – PRIOR ART

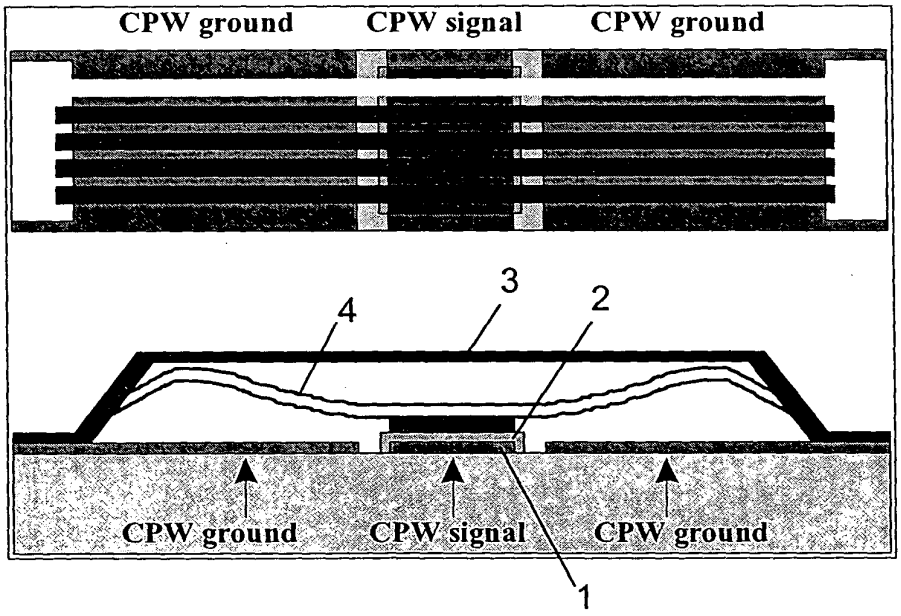


Fig. 2 – PRIOR ART

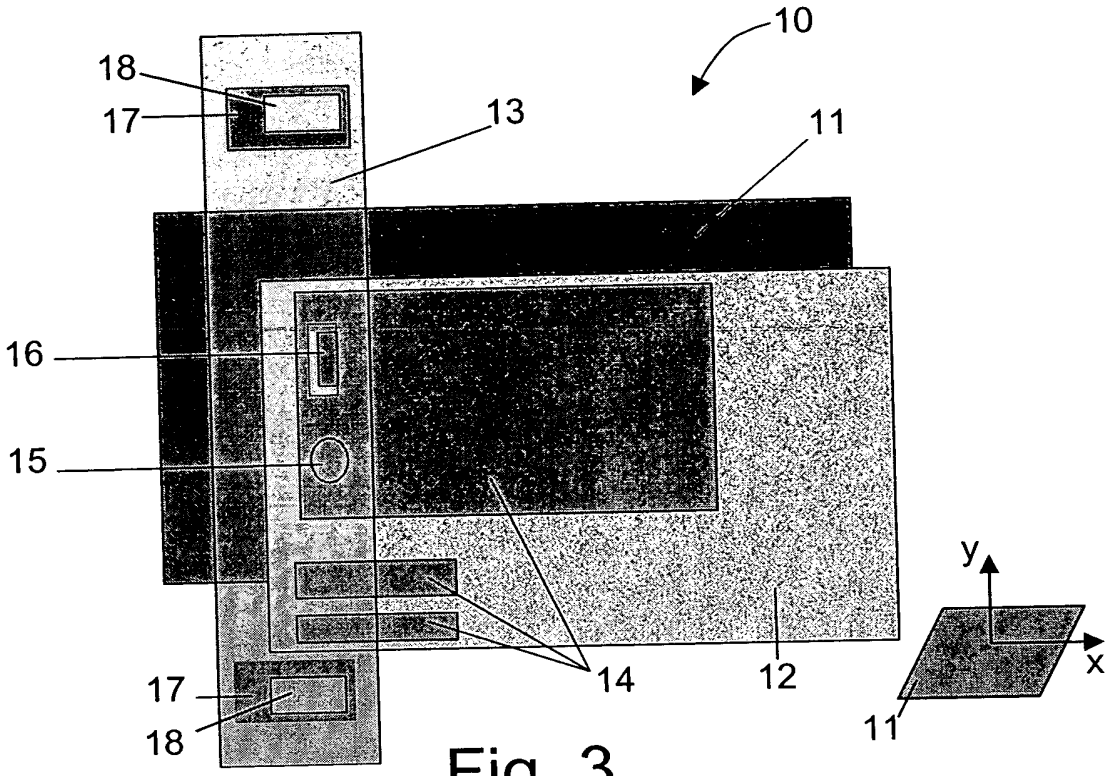

10
18
17
13
11
16
15
17
18
14
12
y
x
11

Fig. 3

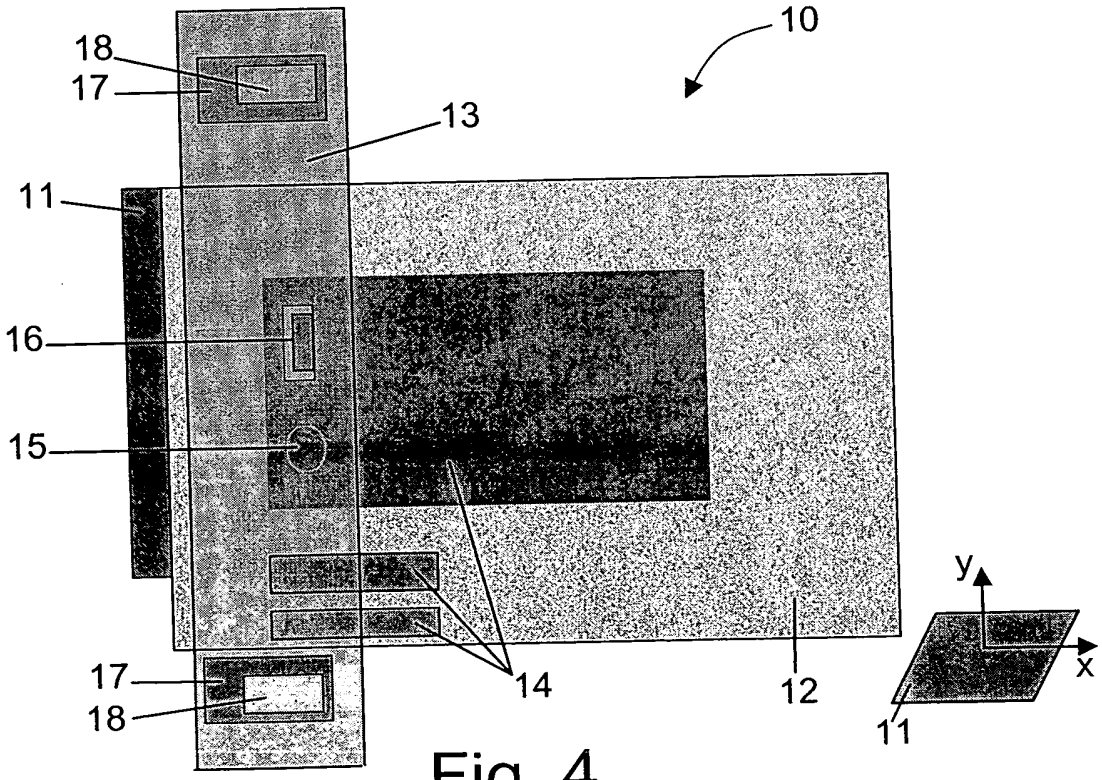

10
18
17
13
11
16
15
17
18
14
12
y
x
11

Fig. 4

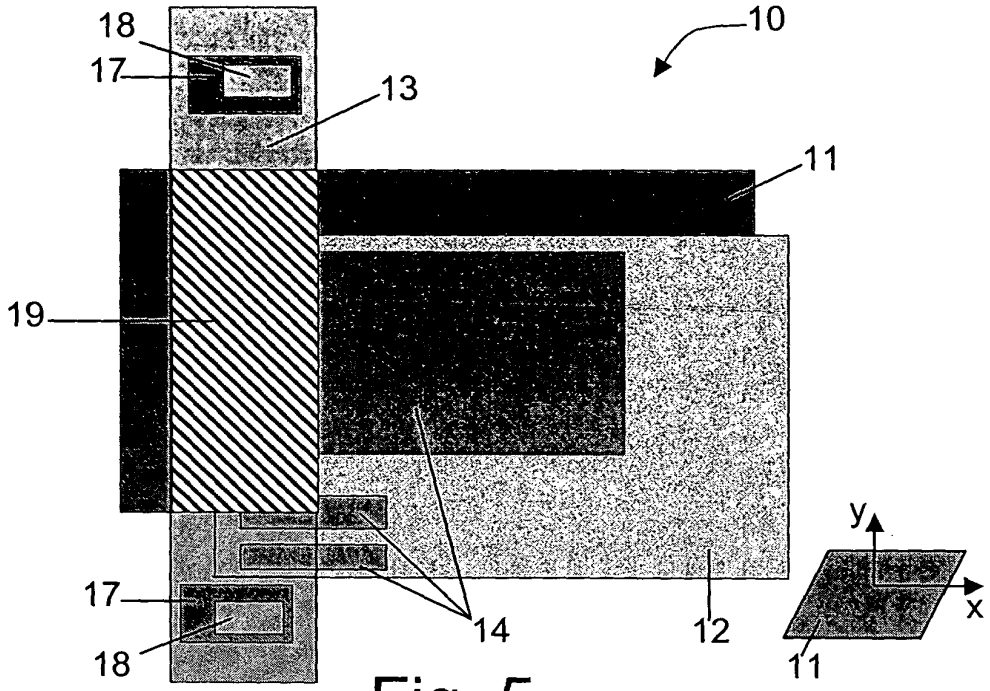


Fig. 5

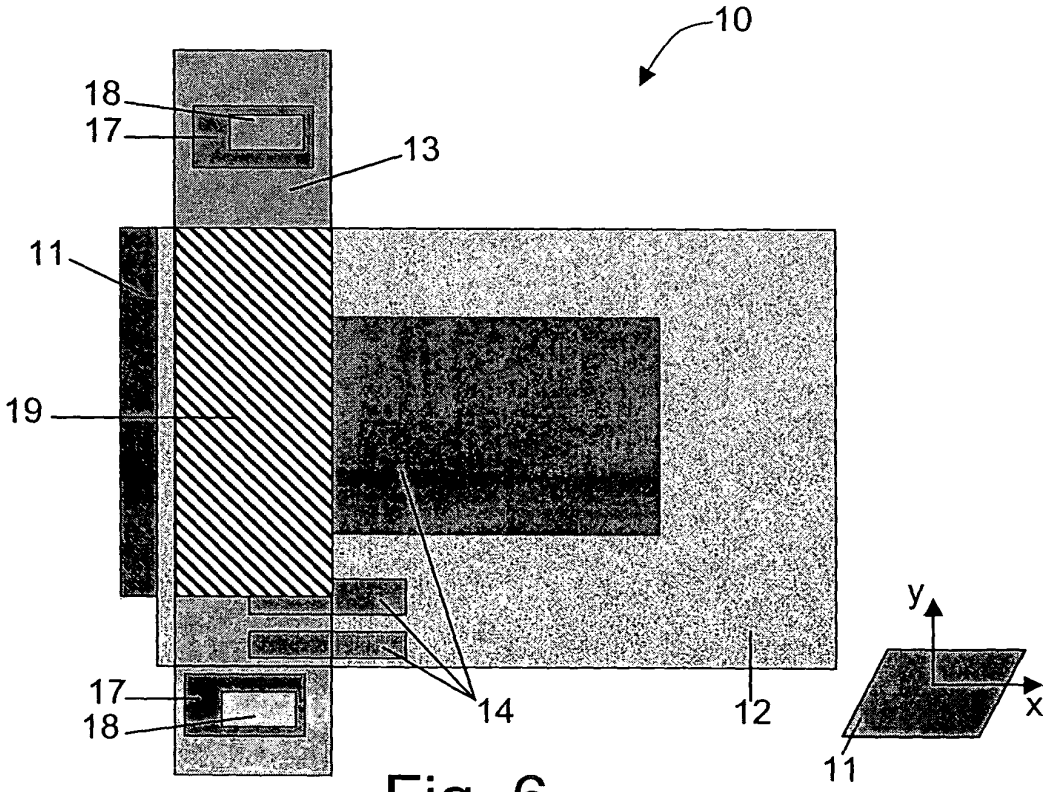


Fig. 6

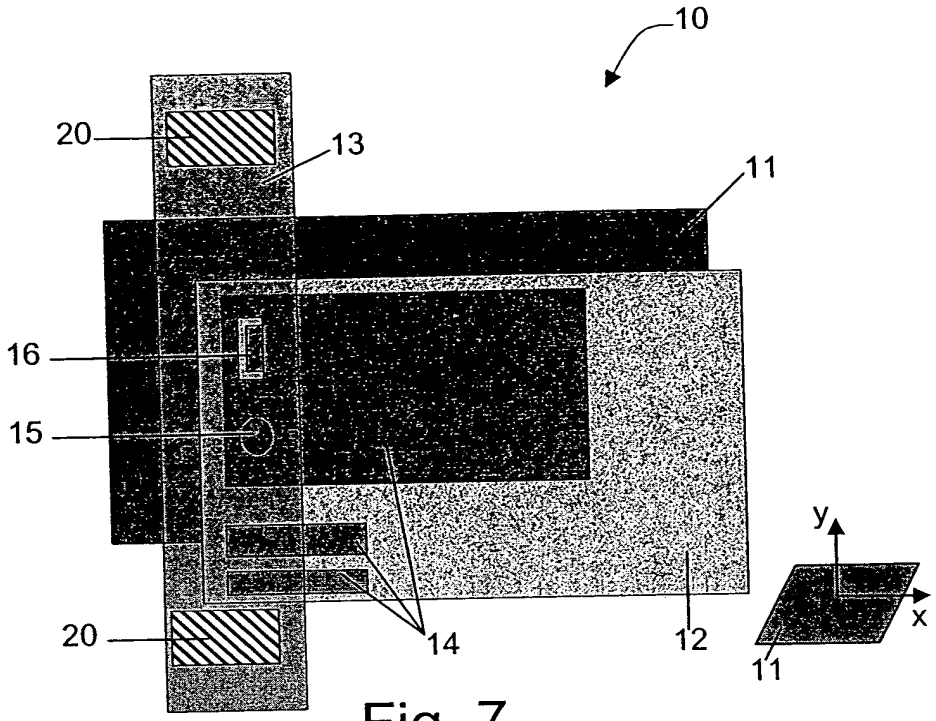


Fig. 7

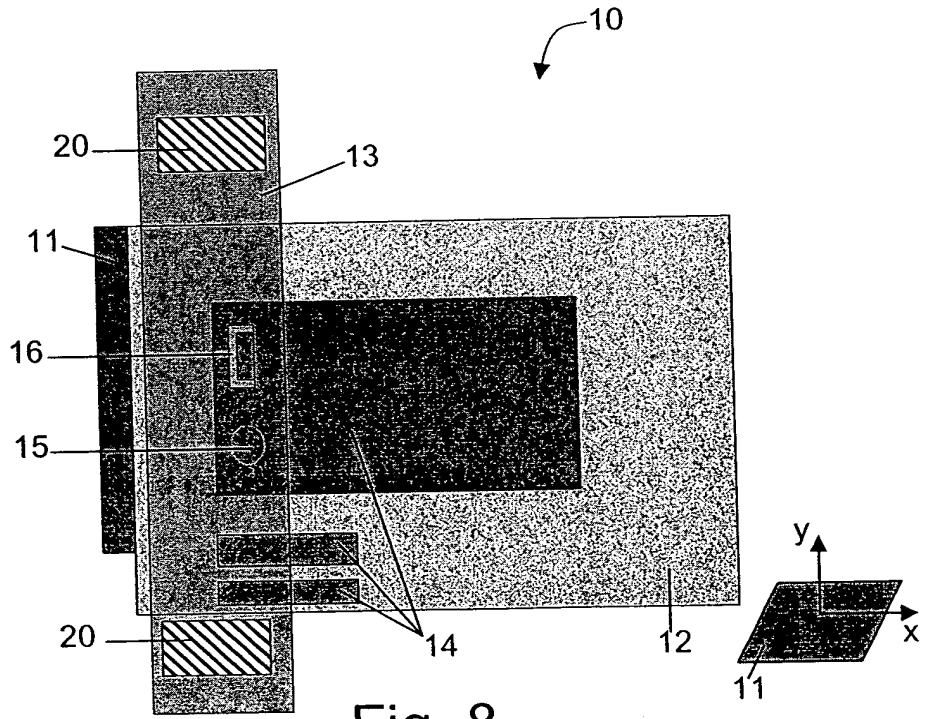


Fig. 8

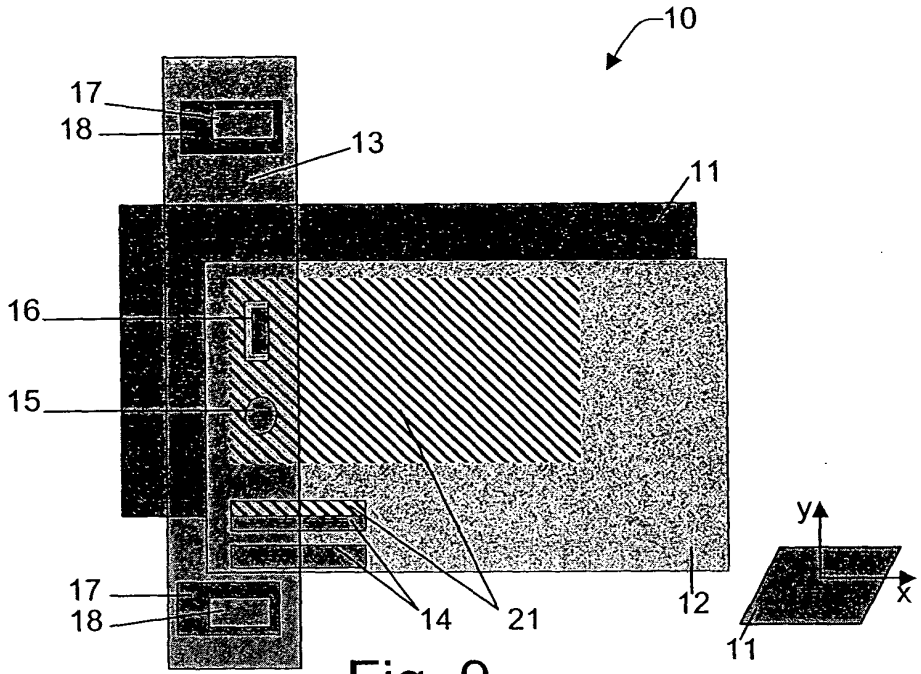

10
17
18
13
11
16
15
17
18
14
21
12
y
x
11

Fig. 9

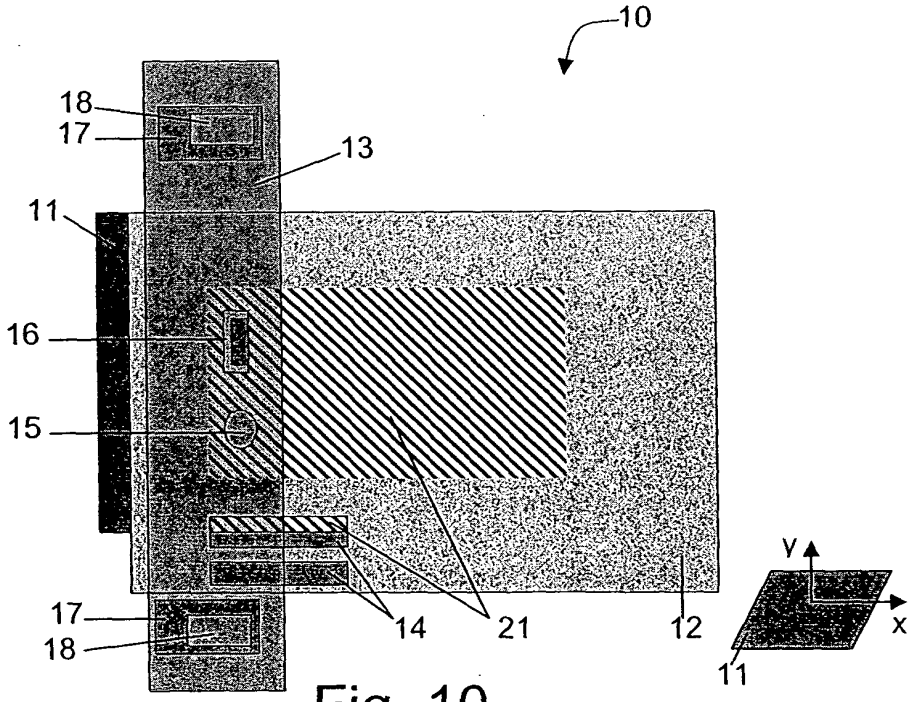

10
18
17
13
11
16
15
17
18
14
21
12
y
x
11

Fig. 10

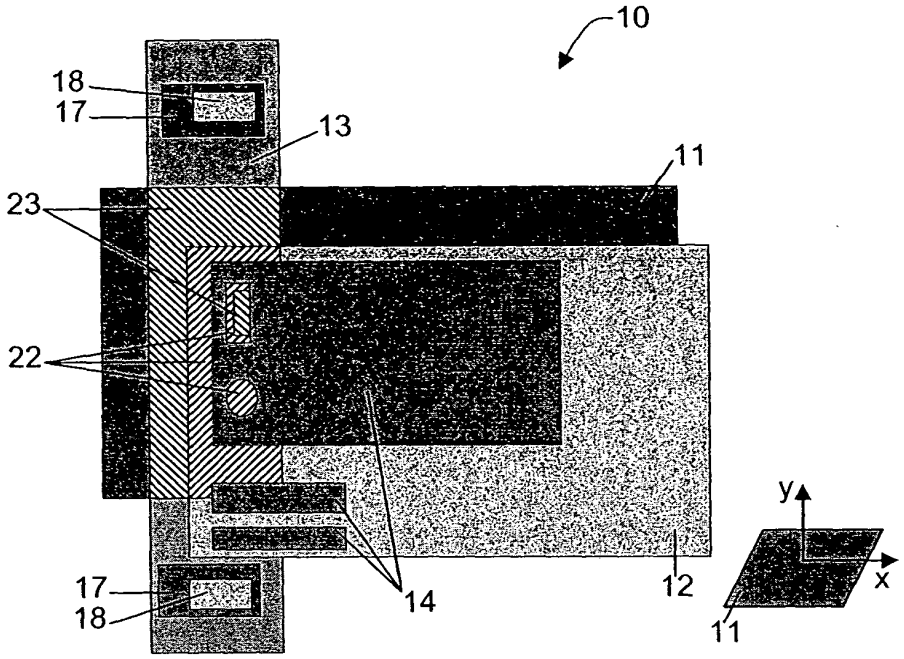


Fig. 11

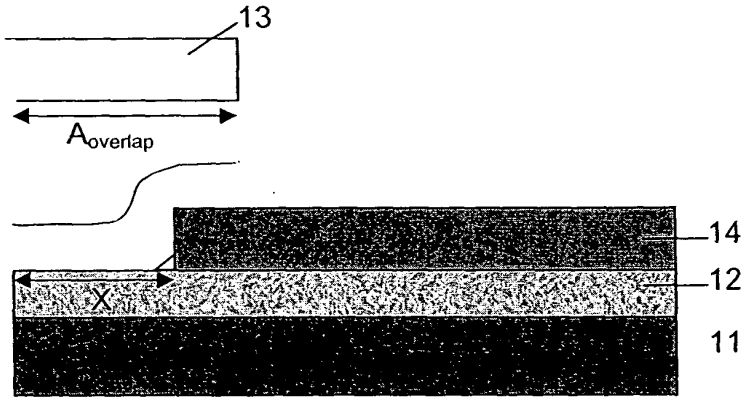
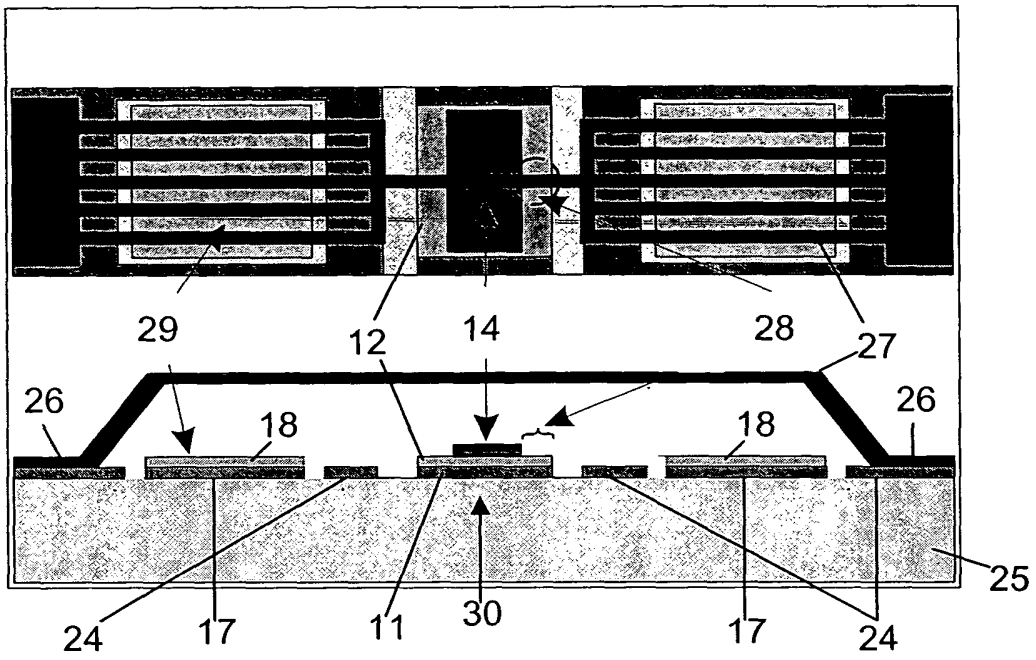


Fig. 12


29
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24
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30
17
24

Fig. 13

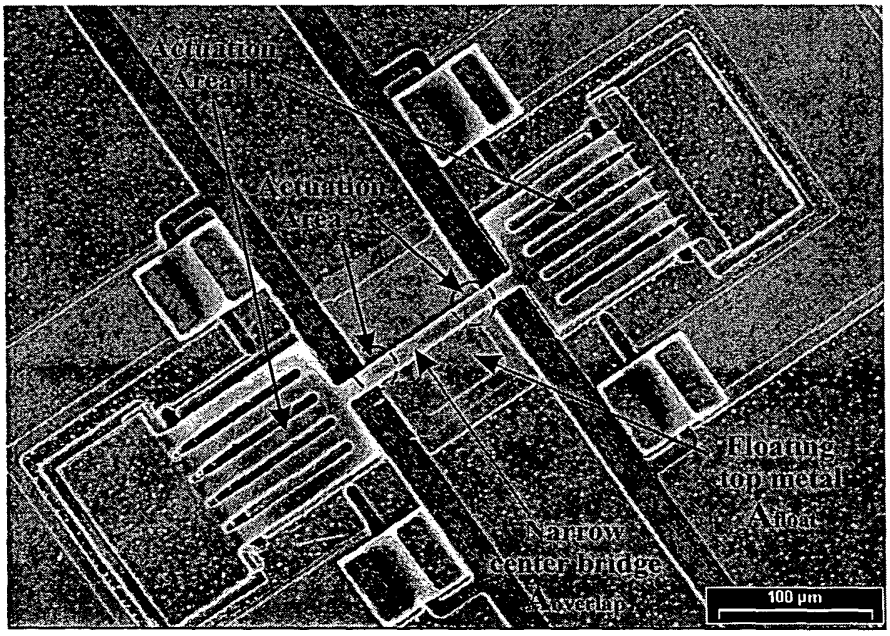
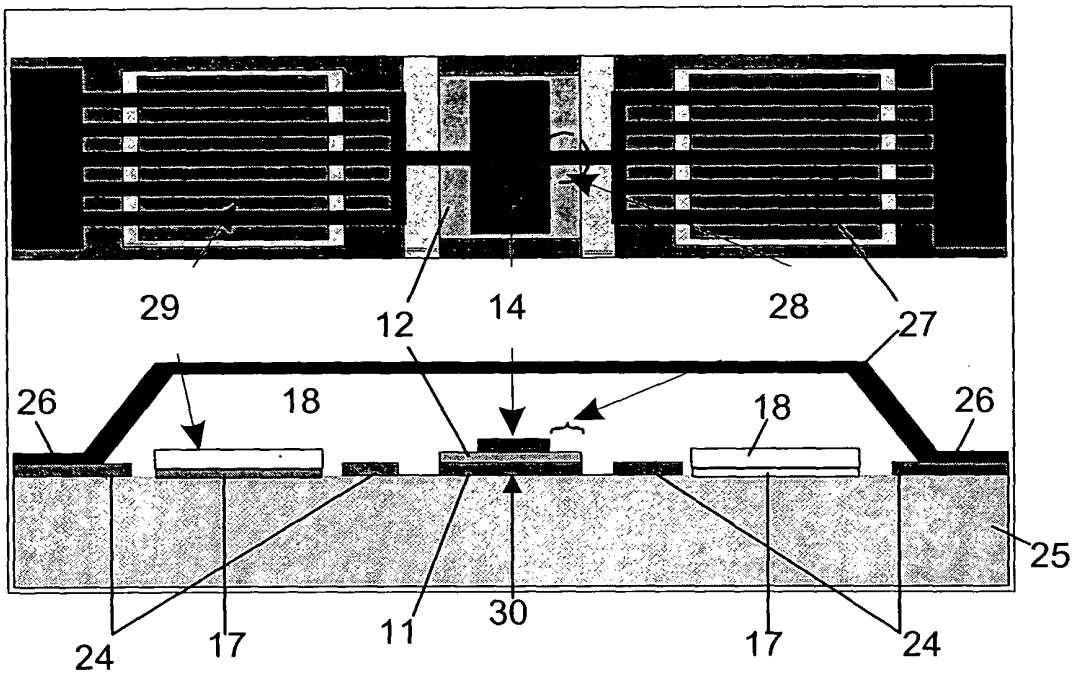

Actuation Area
Actuation Area
Floating top metal
Narrow center bridge
100 µm

Fig. 14


29
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28
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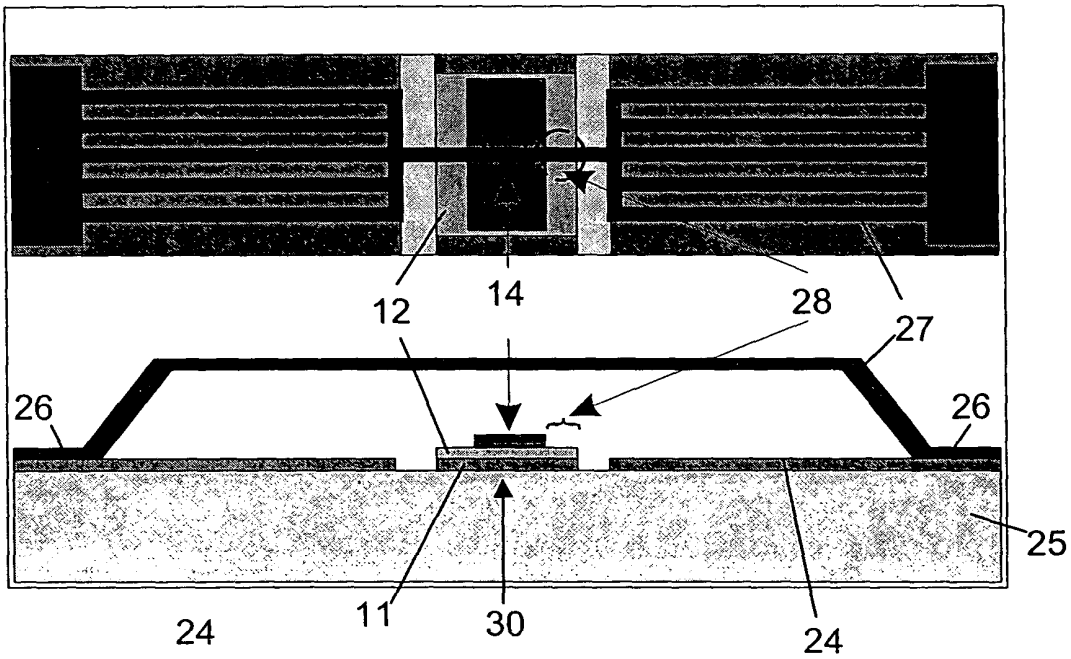
26
18
18
26
25
24
17
11
30
17
24

Fig. 15


12
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27
26
26
25
24
11
30
24

Fig. 16

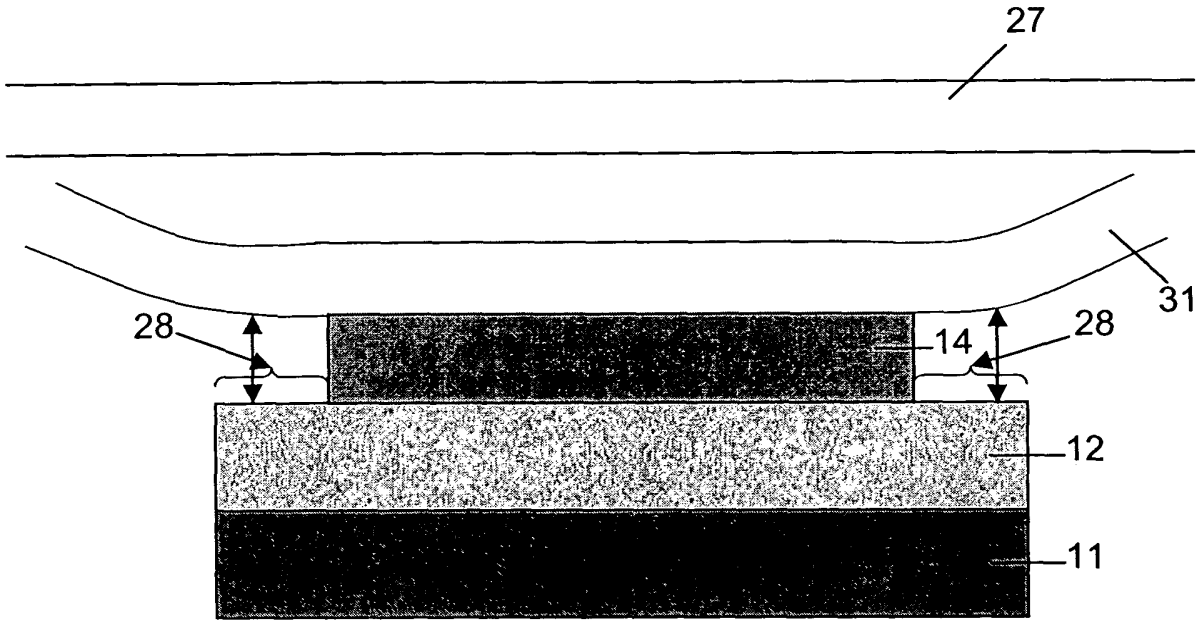


Fig. 17

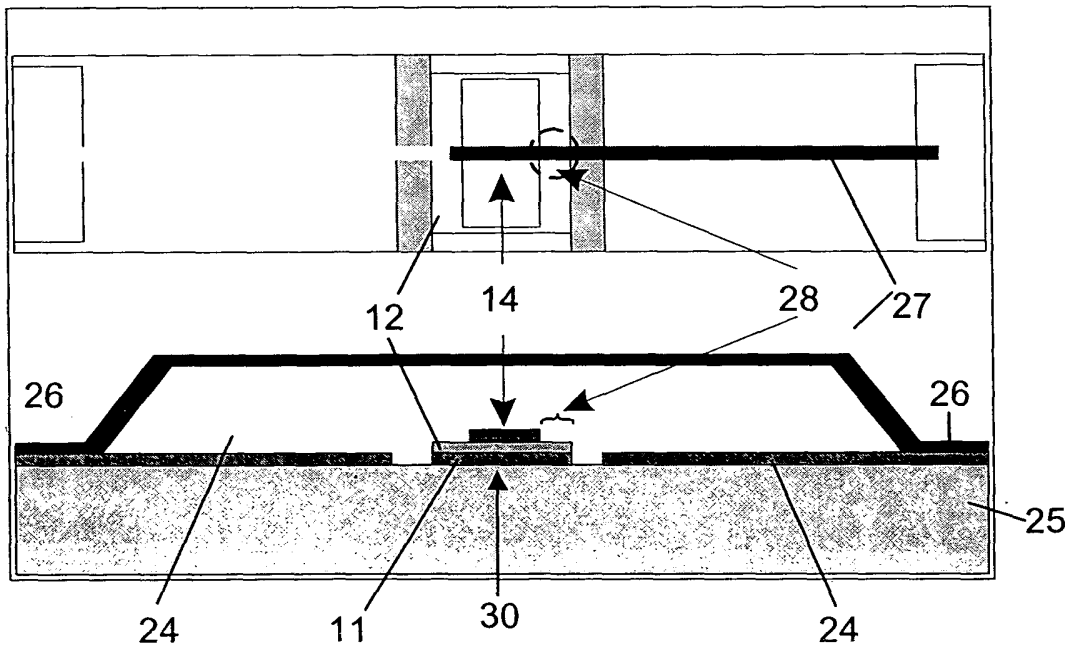


Fig. 18

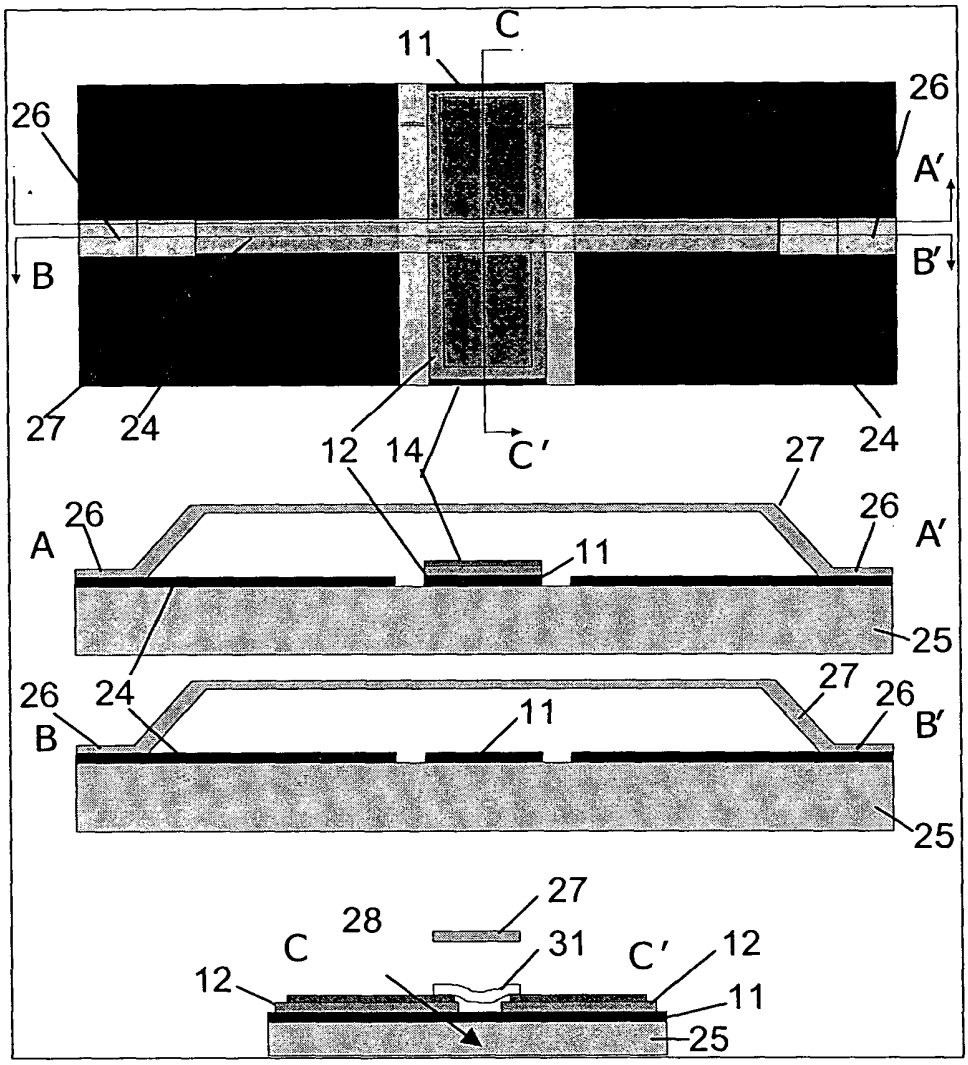

11
C
26
26
A'
B
B'
27
24
12
14
C'
27
24
26
A
26
A'
11
25
26
24
27
26
B
11
B'
25
27
28
31
C
C'
12
12
11
25

Fig. 19

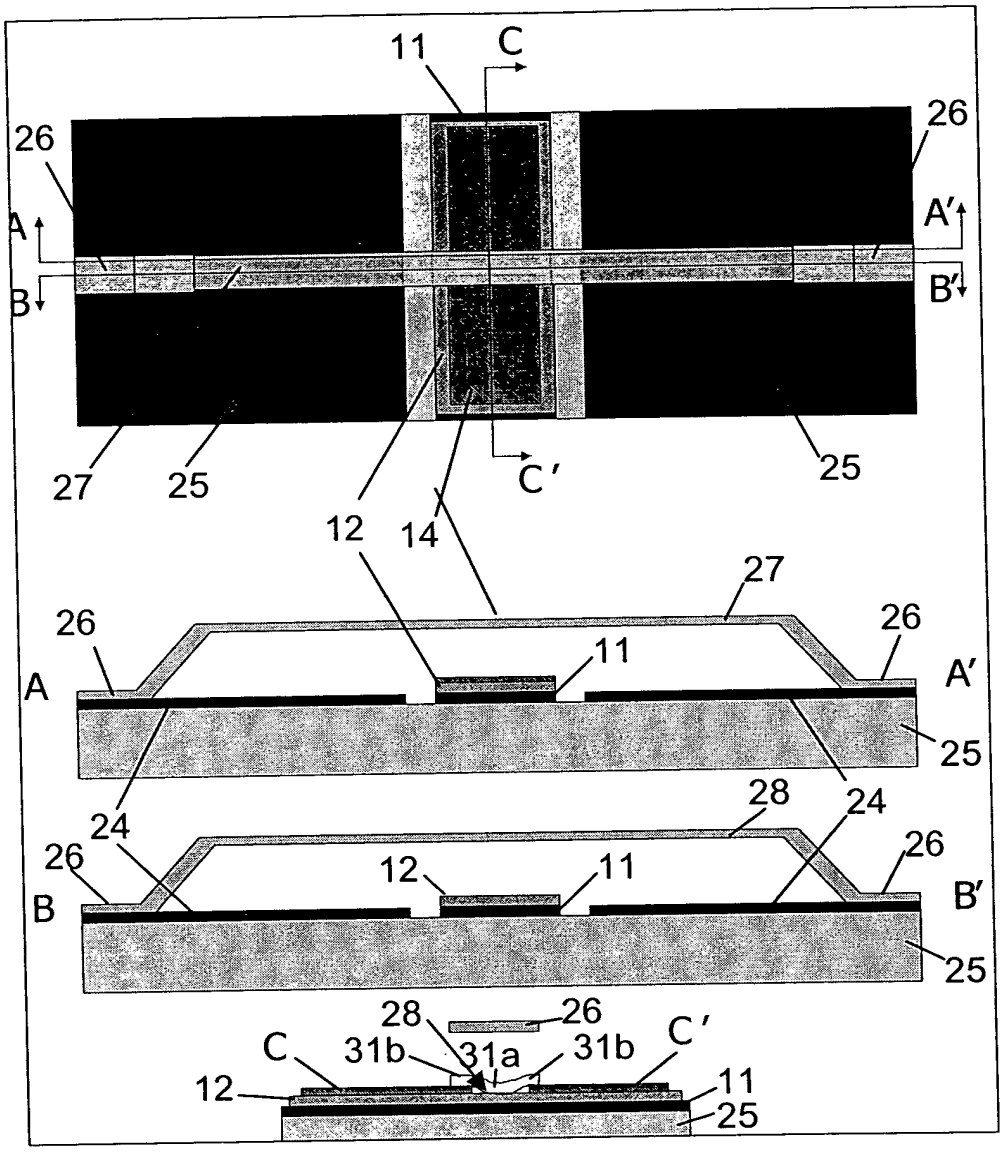

11
C
26
26
A
A'
B
B'
27
25
C'
25
12
14
27
26
26
A
A'
11
25
24
28
24
26
26
12
11
B
B'
25
28
26
C
31b
31a
31b
C'
12
11
25

Fig. 20

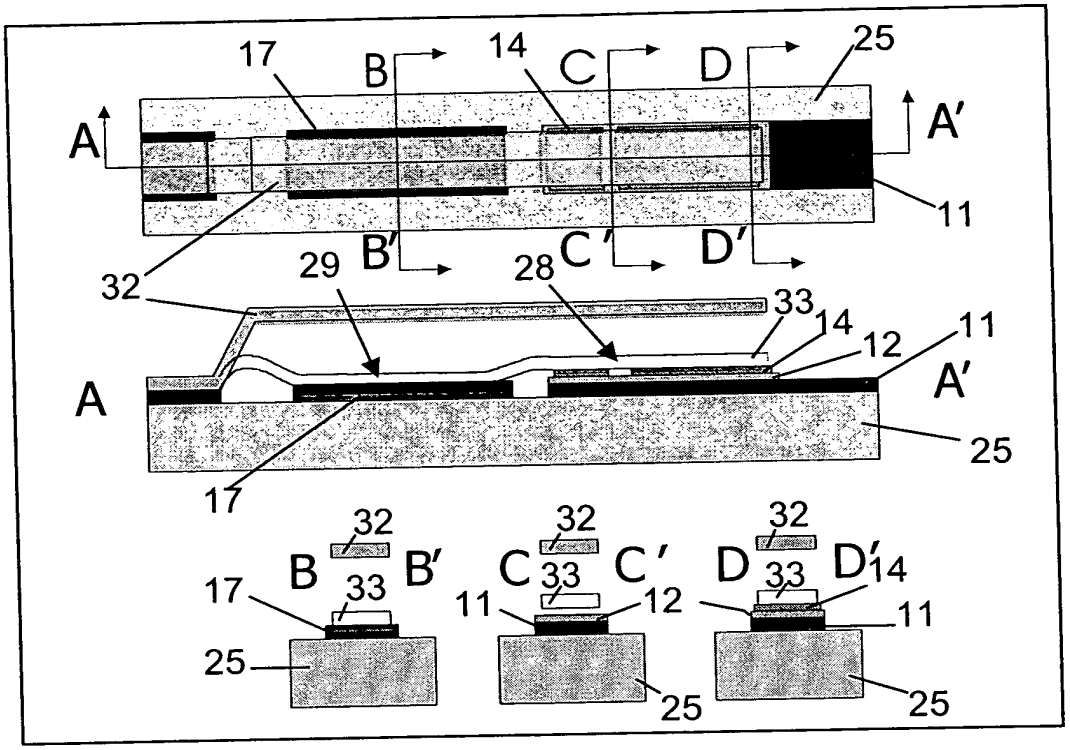

17
B
14
C
D
25
A
A'
11
32
29
B'
28
C'
D'
33
14
12
11
A
A'
25
17
32
32
32
B
B'
C
C'
D
D'
33
33
33
14
17
11
12
11
25
25
25

Fig. 21

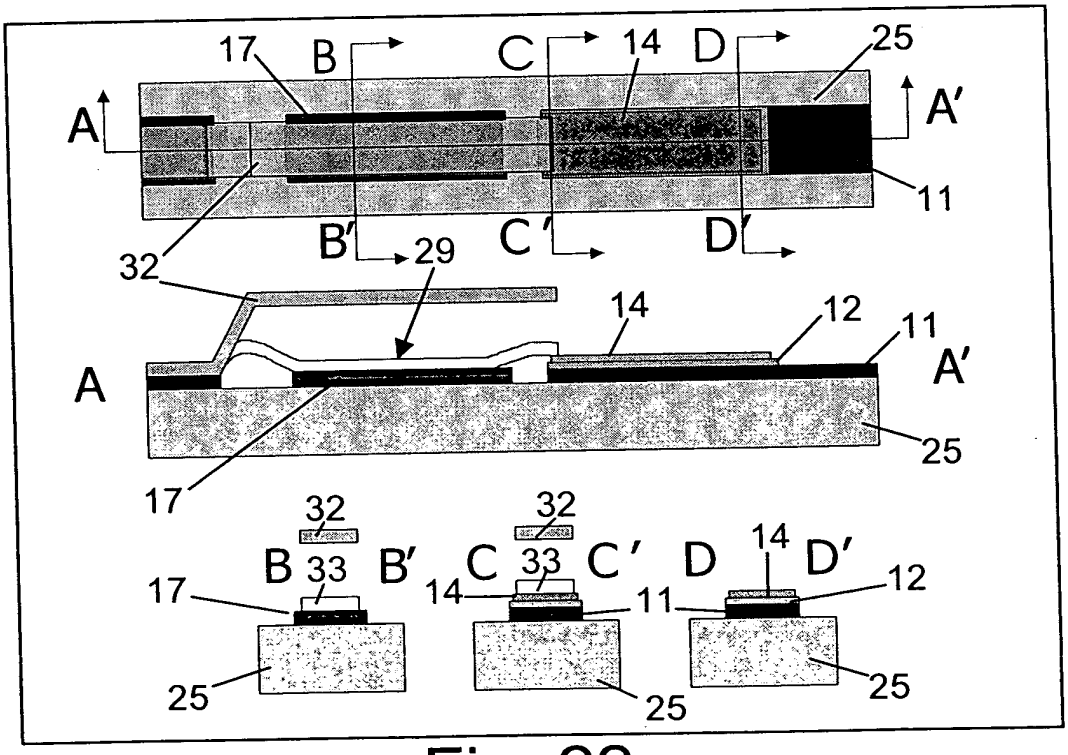
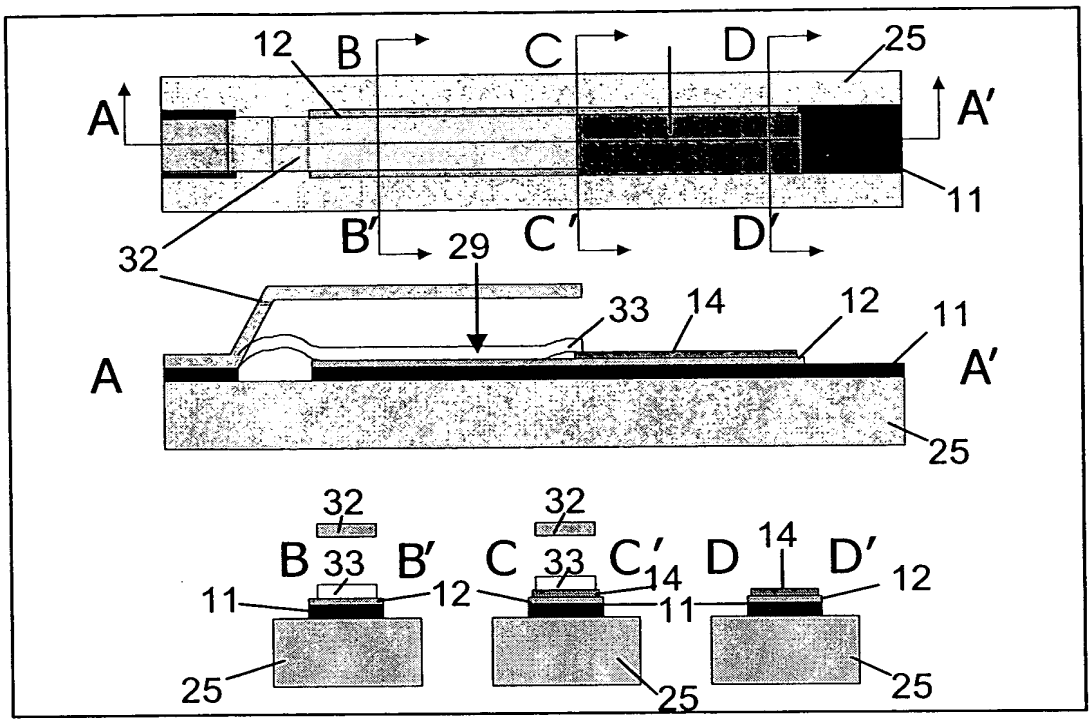

17
B
C
14
D
25
A
A'
11
B'
C'
D'
32
29
14
12
11
A
A'
25
17
32
32
14
B
33
B'
C
33
C'
D
D'
17
14
11
12
25
25
25

Fig. 22


12
B
C
D
25
A
A'
11
32
B'
29
C'
D'
33
14
12
11
A
A'
25
32
32
B
33
B'
C
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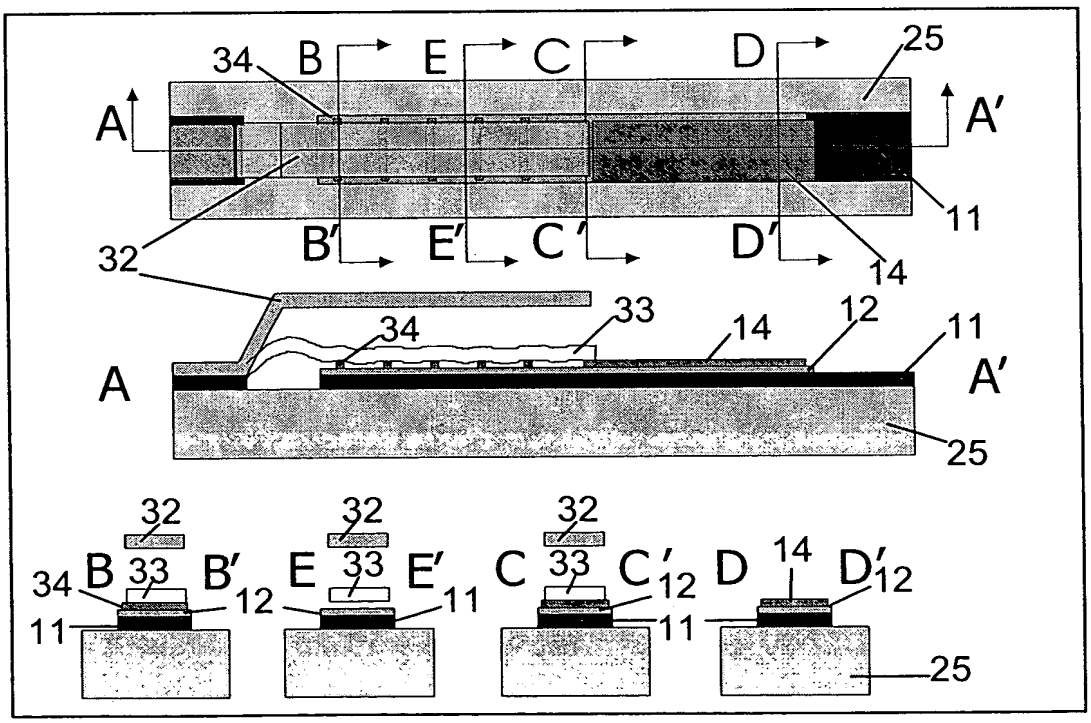
C'
14
D
14
D'
12
11
12
11
25
25
25

Fig. 23


34
B
E
C
D
25
A
A'
11
32
B'
E'
C'
D'
14
33
34
14
12
11
A
A'
25
32
32
32
34
B
33
B'
12
E
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E'
11
C
33
C'
12
D
14
D'
12
11
11
25

Fig. 25

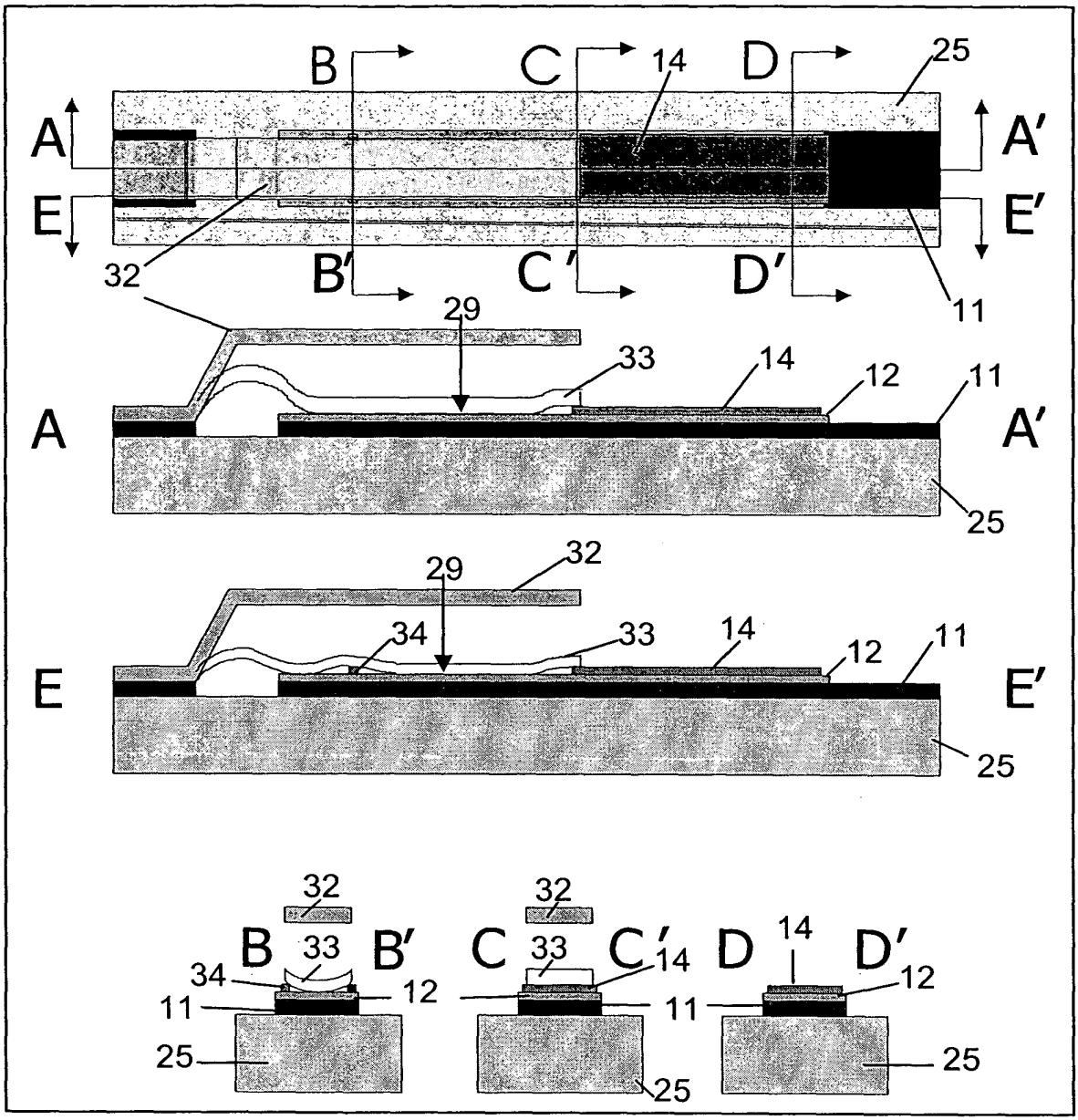

Fig. 24